RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: *10/529,713*
Source: *PCT*
Date Processed by STIC: *4-6-0?*

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER VERSION 4.2.2 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:
> http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05): U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/24/05

ERROR DETECTED	SUGGESTED CORRECTION	SERIAL NUMBER: 10/529,713

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1 _____ Wrapped Nucleics
Wrapped Aminos — The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .5; this will prevent "wrapping."

2 _____ Invalid Line Length — The rules require that a line not exceed 72 characters in length. This includes white spaces.

3 _____ Misaligned Amino
Numbering — The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.

4 _____ Non-ASCII — The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.

5 _____ Variable Length — Sequence(s) _____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing

6 _____ PatentIn 2.0 "bug" — A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.

7 _____ Skipped Sequences (OLD RULES) — Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO X (insert SEQ ID NO where "X" is shown)
(i)   SEQUENCE CHARACTERISTICS (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION SEQ ID NO X (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped

Please also adjust the "(1) NUMBER OF SEQUENCES" response to include the skipped sequences.

8 _____ Skipped Sequences (NEW RULES) — Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence:
<210> sequence id number
<400> sequence id number
000

9 _____ Use of n's or Xaa's (NEW RULES) — Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220> - <223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residues n or Xaa represents.

10 _____ Invalid <223> Response — Per 1.823 of Sequence Rules, the only valid <223> responses are Unknown, Artificial Sequence OR scientific name (Genus/species). <220> - <223> section is required when <223> response is that it is Artificial Sequence. **OR**

11 _____ Use of <220> — Sequence(s) _____ missing the <220> feature and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <211> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section (See "Federal Register," 06/01/1998, Vol 63, No. 104, pp. 29631-32) (See 1.823 of Sequence Rules)

12 _____ PatentIn 2.0 "bug" — Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk

13 _____ Misuse of n/Xaa — "n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid

AMC - Biotechnology Systems Branch - 09/02/2003

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/529,713

DATE: 04/06/2005
TIME: 15:44:01

Input Set : A:\18201-003US1.txt
Output Set: N:\CRF4\04062005\J529713.raw

```
   3 <110> APPLICANT: Yasuno, Hideyuki
   4         Mori, Kazushige
   6 <120> TITLE OF INVENTION: OLIGONUCLEOTIDE FOR GENOTYPING OF THYMIDYLATE SYNTHASE GENE
   8 <130> FILE REFERENCE: 18201-003US1
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/529,713
C--> 10 <141> CURRENT FILING DATE: 2005-03-29
  10 <150> PRIOR APPLICATION NUMBER: PCT/JP2002/10167
  11 <151> PRIOR FILING DATE: 2002-09-30
  13 <160> NUMBER OF SEQ ID NOS: 4
  15 <170> SOFTWARE: PatentIn version 3.0
  17 <210> SEQ ID NO: 1
  18 <211> LENGTH: 27
  19 <212> TYPE: DNA
C--> 20 <213> ORGANISM: Artificial/Unknown
  22 <220> FEATURE:
  23 <221> NAME/KEY: misc_feature
  24 <222> LOCATION: ()..()
  25 <223> OTHER INFORMATION: an artificially synthesized probe sequence
  28 <220> FEATURE:
  29 <221> NAME/KEY: misc_feature
  30 <222> LOCATION: (1)..(1)
  31 <223> OTHER INFORMATION: labeled with Red640
  34 <400> SEQUENCE: 1
  35 cttggcctgc ctccgtcccg ccgcgcc
  38 <210> SEQ ID NO: 2
  39 <211> LENGTH: 50
  40 <212> TYPE: DNA
C--> 41 <213> ORGANISM: Artificial/Unknown
  43 <220> FEATURE:
  44 <221> NAME/KEY: misc_feature
  45 <222> LOCATION: ()..()
  46 <223> OTHER INFORMATION: an artificially synthesized probe sequence
  49 <220> FEATURE:
  50 <221> NAME/KEY: misc_feature
  51 <222> LOCATION: (50)..(50)
  52 <223> OTHER INFORMATION: labeled with FITC
  55 <400> SEQUENCE: 2
  56 cgcggaaggg gtcctgccac cgcgccactt ggcctgcctc ggtcccgccg
  59 <210> SEQ ID NO: 3
  60 <211> LENGTH: 19
  61 <212> TYPE: DNA
C--> 62 <213> ORGANISM: Artificial/Unknown
  64 <220> FEATURE:
```

[Handwritten annotations: "= Invalid response — Does Not Comply Corrected Diskette Needed (pg. 1-2)", "MANDATORY", "27", "<213> responses has to be either Artificial OR 50", "Unknown OR Genus/Species.", "= Invalid response", "4/6/05"]

RAW SEQUENCE LISTING   DATE: 04/06/2005
PATENT APPLICATION: US/10/529,713   TIME: 15:44:01

Input Set : A:\18201-003US1.txt
Output Set: N:\CRF4\04062005\J529713.raw

```
65 <221> NAME/KEY: misc_feature
66 <222> LOCATION: ()..()
67 <223> OTHER INFORMATION: an artificially synthesized primer sequence
70 <400> SEQUENCE: 3
71 gtggctcctg cgtttcccc                                        19
74 <210> SEQ ID NO: 4
75 <211> LENGTH: 20
76 <212> TYPE: DNA
C--> 77 <213> ORGANISM: Artificial/Unknown        Invalid Response
79 <220> FEATURE:
80 <221> NAME/KEY: misc_feature
81 <222> LOCATION: ()..()
82 <223> OTHER INFORMATION: an artificially synthesized primer sequence
85 <400> SEQUENCE: 4
86 tccgagccgg ccacaggcat                                       20
```

↑ See item #10
on error summary
sheet.

VERIFICATION SUMMARY
PATENT APPLICATION: US/10/529,713

DATE: 04/06/2005
TIME: 15:44:02

Input Set : A:\18201-003US1.txt
Output Set: N:\CRF4\04062005\J529713.raw

```
L:10 M:270 C: Current Application Number differs, Replaced Current Application No
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:20 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:1
L:41 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:2
L:62 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:3
L:77 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:4
```